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EXAMINER
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AMINZAY, SHAIMA Q

ART UNIT	PAPER NUMBER
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2618

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	01/04/2007	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

**Office Action Summary**

Application No.

10/627,092

Applicant(s)

KANSAL ET AL.

Examiner

Shaima Q. Aminzay

Art Unit

2618

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 10/27/2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 25 July 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: \_\_\_\_\_

## ***DETAILED ACTION***

### ***Response to Arguments***

Applicant's arguments filed October 27, 2006 have been fully considered.

1. With respect to objected claims 12-13 no argument is presented by the applicant and no claim duplication corrections implemented, therefor, the claim objections with respect to duplicate claims 12-13 maintained.
2. Response to applicant's arguments with respect to the rejected claims 5, 6, 7, 11, and 20 under 35 U.S.C. 112 First Paragraph is moot, applicant's arguments partially convincing, therefor, the rejection under 35 U.S.C. 112 First Paragraph withdrawn.
3. Response to applicant's arguments with respect to rejected claims 1-4, 8-10, 12-19, and 21 under Claim Rejections 35 USC 103(a) is moot based on the new ground(s) of rejection, as the amendments to independent claims 1, 14-16, 21, and dependent claims 2-4, 8-9, 12-13, 17-19 overcomes the Claim Rejections 35 USC 103(a), therefore, the Claim Rejections 35 USC 103(a) with respect to claims 1-4, 8-10, 12-19, and 21 withdrawn.

### ***Claim Objections***

4. Claims 12, and 13 are objected to under 37 CFR 1.75(c) as being improper form because, claim 12 is duplicate of claim 13. Applicant is required to make correction.

### ***Claim Rejections - 35 USC § 112***

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

5. Claims 1-21 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter that is not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

In independent claims 1 and 14, lines 4-5; the phrase "**requesting** at least one component of at least one base station in the communications system to enter a sleep mode", same phrase in dependent claims 2, 6, 8, 9, 12, 3; in independent claim 16 lines 3-4, the phrase "requesting at least one channel of a plurality of channels implemented in a base station in the communications system to enter a

sleep mode", same phrase in dependent claim 17; in dependent claims 3, 4, 5, the phrase "requesting at least one component of said at least one base station in the communications system leave the sleep mode"; in dependent claims 18, 19, and 20 the phrase "requesting at least one at least one channel of the plurality of channels implemented in a base station in the communications system leave the sleep mode" is not supported in the specification, for example, in the specification page 15, lines 9-24, pages 16, lines 1-24 states the base station entering sleep mod, however, the specification does not mention **"requesting** at least one component of at least one base station in the communications system to enter a sleep mode", "requesting at least one channel of a plurality of channels implemented in a base station in the communications system to enter a sleep mode", "requesting at least one component of said at least one base station in the communications system leave the sleep mode", and "requesting at least one at least one channel of the plurality of channels implemented in a base station in the communications system leave the sleep mode".

In independent claim 15, lines 2 and 3, the phrase "a first channel implemented in a base station; a second channel implemented in the base station, and in independent claim 21, lines 2-3, the phrase "of at least one base station for supporting communication over at least a first and a second channel in a communications system" is not supported in the specification, for example, in the specification page 2, lines 9-26, and in page 13, lines 8-24, the

communication channels are being discussed, however the designated first and second channels, "a first channel implemented in a base station; a second channel implemented in the base station", and "of at least one base station for supporting communication over at least a first and a second channel in a communications system" is not supported in the specification.

The dependent claims 2-19, and 17-20, which depend from independent claims 1 and 16 are rejected under the same reasons set forth in independent claims 1 and 16.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action.

(a ) Patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Li (Li, U. S. Patent 6,356,538) in view of Ruuska (Ruuska U. S. Patent 6,584,330).

Regarding claim 1, Li discloses a method for controlling a communications system (see for example, *Figures 1-9, column 1, lines 7-11, lines 29-67, column 2, lines 1-3, column 3, lines 12-53, column 5, lines 43-67, column 6, lines 15-67, column 7, lines 1-67, column 8, lines 1-55, controlling a communication system*), comprising: monitoring a parameter associated with the communications system (see for example, *Figures 1-9, column 1, lines 7-11, lines 29-67, column 2, lines 1-3, column 3, lines 12-53, column 5, lines 43-67, column 6, lines 15-67, column 7, lines 1-67, column 8, lines 1-55, monitoring communication system's parameter(s)*); and requesting at least one component of *[at least one base station in]* the communications system to enter a sleep mode in response to detecting a preselected aspect of the monitored parameter (see for example, *column 3, lines 12-53, column 5, lines 43-67, column 6, lines 15-67, column 7, lines 1-67, column 8, lines 1-55*).

Li does not specifically teach requesting one component of at least one base station, however, Li teaches that the base station is the controlling station (see for example, *column 1, lines 41-67, column 3, lines 31-48, column 4, lines 43-52, column 6, lines 39-44*).

In related art dealing with transmission power control and sleep mode (see for example, *Figures 1-16, column 1, lines 5-12, lines 46-67, column 2, lines 1-7, column 4, lines 9-21*), Ruuska teaches requesting at least one component of at least one base station to enter sleep mode (see for example, *Figures 1-16, column 1, lines 46-67, column 2, lines 1-7, column 3, lines 35-67, column 4, lines*

1-21, lines 28-32, lines 56-67, column 5, lines 1-28, lines 42-58, column 6, lines 54-67).

It would have been obvious to one of ordinary skill in the art at the time invention was made to include Ruuska's base station entering sleep mode with Li's power saving sleep mode control system to provide sleep mode control communication system with "power saving mode by turning off certain components or functions of the node and/or instructing certain components or functions of the node to enter a sleep mode" to reduced power consumption that "can have an advantageous affect on the environment, as well as reduced overall costs for the network" (Ruuska, column 1, lines 20-27, lines 55-60, column 2, lines 4-7).

Regarding claim 14, Li discloses an apparatus, for controlling a communications system (see for example, Figures 1-9, column 1, lines 7-11, lines 29-67, column 2, lines 1-3, column 3, lines 12-53, column 5, lines 43-67, column 6, lines 15-67, column 7, lines 1-67, column 8, lines 1-55, controlling a communication system), comprising: means for monitoring a parameter associated with the communications system (see for example, Figures 1-9, column 1, lines 7-11, lines 29-67, column 2, lines 1-3, column 3, lines 12-53, column 5, lines 43-67, column 6, lines 15-67, column 7, lines 1-67, column 8, lines 1-55); and means for requesting at least one component of [said at least one base station in] the communications system to enter a sleep mode in



response to detecting a preselected aspect of the monitored parameter (see for example, column 3, lines 12-53, column 5, lines 43-67, column 6, lines 15-67, column 7, lines 1-67, column 8, lines 1-55, entering sleep mode in response to selected parameter that is selected).

Li does not specifically teaches requesting one component of at least on base station, however, Li teach that the base station is the controlling station (see for example, column 1, lines 41-67, column 3, lines 31-48, column 4, lines 43-52, column 6, lines 39-44).

In related art dealing with transmission power control and sleep mode (see for example, Figures 1-16, column 1, lines 5-12, lines 46-67, column 2, lines 1-7, column 4, lines 9-21), Ruuska teaches requesting at least one component of at least one base station to enter sleep mode (see for example, Figures 1-16, column 1, lines 46-67, column 2, lines 1-7, column 3, lines 35-67, column 4, lines 1-21, lines 28-32, lines 56-67, column 5, lines 1-28, lines 42-58, column 6, lines 54-67).

It would have been obvious to one of ordinary skill in the art at the time invention was made to include Ruuska's base station entering sleep mode with Li's power saving sleep mode control system to provide sleep mode control communication system with "power saving mode by turning off certain components or functions of the node and/or instructing certain components or functions of the node to enter a sleep mode" to reduced power consumption that "can have an advantageous affect on the environment, as well as reduced overall

costs for the network" (Ruuska, column 1, lines 20-27, lines 55-60, column 2, lines 4-7).

Regarding claim 15, Li discloses a communications system (see for example, Figures 1-9, column 1, lines 7-11, lines 29-67, column 2, lines 1-3, column 3, lines 12-53, column 4, lines 43-52, column 5, lines 43-67, column 6, lines 15-67, column 7, lines 1-67, column 8, lines 1-55, controlling a communication system), comprising: a first channel implemented in a base station (see for example, column 1, lines 51-67, column 2, lines 1-3, lines 32-40, lines 47-52, column 4, lines 43-52, column 5, lines 49-63, column 6, lines 37-44, column 7, lines 4-23, column 8, lines 4-23); a second channel implemented in a base station (see for example, column 2, lines 32-40, lines 47-52, column 4, lines 43-52, column 5, lines 49-63, column 7, lines 14-27, column 8, lines 4-23); and a controller adapted to monitor a parameter associated with at least one of the first and second channels (see for example, column 2, lines 32-40, lines 47-52, column 4, lines 43-52, column 5, lines 49-63, column 7, lines 14-27, column 8, lines 4-23), and to place [at least one of the first and second] channels in a sleep mode in response to detecting a preselected aspect of the monitored parameter (see for example, Figures 1-9, column 1, lines 7-11, lines 29-67, column 2, lines 1-3, lines 32-40, lines 47-52, column 3, lines 12-53, column 4, lines 43-52, column 5, lines 43-63, column 6, lines 15-67, column 7, lines 14-27, column 8, lines 4-23, lines 25-55).

Li does not specifically teach a base station in a sleep mode, however, Li teach that the base station is the controlling stations sleep mode channels (see for example, column 1, lines 41-67, column 3, lines 31-48, column 4, lines 43-52, column 6, lines 39-44).

In related art dealing with transmission power control and sleep mode (see for example, Figures 1-16, column 1, lines 5-12, lines 46-67, column 2, lines 1-7, column 4, lines 9-21), Ruuska teaches the base station sleep mode (see for example, Figures 1-16, column 1, lines 46-67, column 2, lines 1-7, column 3, lines 35-67, column 4, lines 1-21, lines 28-32, lines 56-67, column 5, lines 1-28, lines 42-58, column 6, lines 54-67).

It would have been obvious to one of ordinary skill in the art at the time invention was made to include Ruuska's base station sleep mode with Li's power saving sleep mode control system to provide sleep mode control communication system with "power saving mode by turning off certain components or functions of the node and/or instructing certain components or functions of the node to enter a sleep mode" to reduced power consumption that "can have an advantageous affect on the environment, as well as reduced overall costs for the network" (Ruuska, column 1, lines 20-27, lines 55-60, column 2, lines 4-7).

Regarding claim 16, Li discloses a method for controlling a communications system (see for example, Figures 1-9, column 1, lines 7-11, lines 29-67, column 2, lines 1-3, column 3, lines 12-53, column 5, lines 43-67, column 6, lines 15-67,

*column 7, lines 1-67, column 8, lines 1-55, controlling a communication system), comprising: monitoring a parameter associated with the communications system (see for example, Figures 1-9, column 1, lines 7-11, lines 29-67, column 2, lines 1-3, column 3, lines 12-53, column 5, lines 43-67, column 6, lines 15-67, column 7, lines 1-67, column 8, lines 1-55, monitoring communication system's parameter(s)); and requesting at least one channel of a plurality of channels [implemented in a base station] the communications system to enter a sleep mode in response to detecting a preselected aspect of the monitored parameter (see for example, column 3, lines 12-53, column 5, lines 43-67, column 6, lines 15-67, column 7, lines 1-67, column 8, lines 1-55, entering sleep mode in response to selected parameter that is selected).*

Li does not specifically teaches requesting at least one channel of a base station, however, Li teaches that the base station is the controlling station with multiple channels (see for example, column 1, lines 41-67, column 3, lines 31-48, column 4, lines 43-52, column 6, lines 39-44).

In related art dealing with transmission power control and sleep mode (see for example, Figures 1-16, column 1, lines 5-12, lines 46-67, column 2, lines 1-7, column 4, lines 9-21), Ruuska teaches requesting at least one channel of a base station (see for example, Figures 1-16, column 1, lines 46-67, column 2, lines 1-7, column 3, lines 35-67, column 4, lines 1-21, lines 28-32, lines 56-67, column 5, lines 1-28, lines 42-58, column 6, lines 54-67).

It would have been obvious to one of ordinary skill in the art at the time

invention was made to include Ruuska's base station entering sleep mode with Li's power saving sleep mode control system to provide sleep mode control communication system with "power saving mode by turning off certain components or functions of the node and/or instructing certain components or functions of the node to enter a sleep mode" to reduced power consumption that "can have an advantageous affect on the environment, as well as reduced overall costs for the network" (Ruuska, *column 1, lines 20-27, lines 55-60, column 2, lines 4-7*).

Regarding claim 21, Li discloses an apparatus, comprising: one or more components of at least one base station for supporting communication over at least a first and a second channel in a communications system (*see for example, Figures 1-9, column 1, lines 7-11, lines 29-67, column 2, lines 1-3, column 3, lines 12-53, column 5, lines 43-67, column 6, lines 15-67, column 7, lines 1-67, column 8, lines 1-55, controlling a communication system*); and a processor adapted to monitor a parameter associated with at least one of the first and second channels (*see for example, column 1, lines 7-11, lines 51-67, column 2, lines 1-3, lines 32-52, column 3, lines 12-53, column 4, lines 43-52, column 5, lines 43-63, column 6, lines 23-67, column 7, lines 1-67, column 8, lines 4-23*), and to place at least one of the components of said at least one base station in a sleep mode in response to detecting a preselected aspect of the monitored parameter (*see for example, column 1, lines 7-11, lines 51-67, column 2, lines 1-*

*3, lines 32-52, column 3, lines 12-53, column 4, lines 43-52, column 5, lines 43-63, column 6, lines 23-67, column 7, lines 1-67, column 8, lines 4-23).*

Li does not specifically teaches requesting one component of at least on base station, however, Li teaches that the base station is the controlling station (see for example, column 1, lines 41-67, column 3, lines 31-48, column 4, lines 43-52, column 6, lines 39-44).

In related art dealing with transmission power control and sleep mode (see for example, Figures 1-16, column 1, lines 5-12, lines 46-67, column 2, lines 1-7, column 4, lines 9-21), Ruuska teaches requesting at least one component of at least one base station to enter sleep mode (see for example, Figures 1-16, column 1, lines 46-67, column 2, lines 1-7, column 3, lines 35-67, column 4, lines 1-21, lines 28-32, lines 56-67, column 5, lines 1-28, lines 42-58, column 6, lines 54-67).

It would have been obvious to one of ordinary skill in the art at the time invention was made to include Ruuska's base station entering sleep mode with Li's power saving sleep mode control system to provide sleep mode control communication system with "power saving mode by turning off certain components or functions of the node and/or instructing certain components or functions of the node to enter a sleep mode" to reduced power consumption that "can have an advantageous affect on the environment, as well as reduced overall costs for the network" (Ruuska, column 1, lines 20-27, lines 55-60, column 2, lines 4-7).

Regarding claim 2, Li in view of Ruuska teach all the limitations of claim 1, further, Li teaches wherein monitoring the parameter associated with the communications system further comprises monitoring time of day (*see for example, column 1, lines 36-62, column 5, lines 54-67, column 6, lines 1-14, lines 61-67, column 7, lines 1-4, lines 39-67, column 8, lines 4-23*) and wherein requesting at least one component of *[said at least one base station in]* the communications system to enter the sleep mode in response to detecting the preselected aspect of the monitored parameter (*see for example, Figures 1-9, column 1, lines 7-11, lines 29-67, column 2, lines 1-3, column 3, lines 12-53, column 5, lines 54-67, column 6, lines 1-14, lines 61-67, column 7, lines 1-4, lines 39-67, column 8, lines 1-55*) further comprises requesting at least one component of *[said at least one base station in]* the communications system to enter the sleep mode in response to the time of day being later than a first preselected setpoint (*see for example, column 1, lines 36-62, column 5, lines 54-67, column 6, lines 1-14, lines 61-67, column 7, lines 1-4, lines 39-67, column 8, lines 4-23*), and further, Ruuska teaches requesting at least one component of at least one base station to enter sleep mode (*see for example, Figures 1-16, column 1, lines 46-67, column 2, lines 1-7, column 3, lines 35-67, column 4, lines 1-21, lines 28-32, lines 56-67, column 5, lines 1-28, lines 42-58, column 6, lines 54-67*).

Regarding claim 3, Li in view of Ruuska teach all the limitations of claim 2, further, Li teaches requesting at least one component of *[said at least one base station in]* the communications system leave the sleep mode in response to detecting a preselected aspect of the monitored parameter (see for example, Figures 1-9, column 1, lines 7-11, lines 29-67, column 2, lines 1-3, column 3, lines 12-53, column 5, lines 54-67, column 6, lines 1-14, lines 61-67, column 7, lines 1-4, lines 39-67, column 8, lines 1-55), and further, Ruuska teaches requesting at least one component of said at least one base station leaving sleep mode (see for example, Figures 1-16, column 1, lines 46-67, column 2, lines 1-7, column 3, lines 35-67, column 4, lines 1-21, lines 28-32, lines 56-67, column 5, lines 1-28, lines 42-58, column 6, lines 54-67).

Regarding claim 4, Li in view of Ruuska teach all the limitations of claim 3, further, Li teaches wherein requesting at least one component of *[said at least one base station in]* the communications system leave the sleep mode in response to detecting a preselected aspect of the monitored parameter (see for example, Figures 1-9, column 1, lines 7-11, lines 29-67, column 2, lines 1-3, column 3, lines 12-53, column 5, lines 54-67, column 6, lines 1-14, lines 61-67, column 7, lines 1-4, lines 39-67, column 8, lines 1-55) further comprises requesting at least one component of *[said at least one base station in]* the communications system leave the sleep mode in response to the time of day being later than a second preselected setpoint (see for example, column 1, lines



36-62, column 5, lines 54-67, column 6, lines 1-14, lines 61-67, column 7, lines 1-4, lines 39-67, column 8, lines 4-23), and further, Ruuska teaches requesting at least one component of said at least one base station leaving sleep mode (see for example, Figures 1-16, column 1, lines 46-67, column 2, lines 1-7, column 3, lines 35-67, column 4, lines 1-21, lines 28-32, lines 56-67, column 5, lines 1-28, lines 42-58, column 6, lines 54-67).

Regarding claim 5, Li in view of Ruuska teach all the limitations of claim 3, further, Li teaches wherein monitoring the parameter associated with the communications system further comprises monitoring load associated with at least one component of [said at least one base station in] the communications system and (see for example, Figures 1-9, column 1, lines 7-11, lines 29-67, column 2, lines 1-3, column 3, lines 12-53, column 5, lines 54-67, column 6, lines 1-14, lines 61-67, column 7, lines 1-4, lines 39-67, column 8, lines 1-55), and further, Ruuska teaches wherein requesting at least one component of said at least one base station in the communications system leave the sleep mode in response to detecting a preselected aspect of the monitored parameter (see for example, Figures 1-16, column 1, lines 46-67, column 2, lines 1-7, column 3, lines 35-67, column 4, lines 1-21, lines 28-32, lines 56-67, column 5, lines 1-28, lines 42-58, column 6, lines 54-67, column 10, lines 31-33). further comprises requesting at least one component of said at least one base station in the communications system leave the sleep mode in response to the monitored load

being greater than a preselected setpoint (see for example, *Figures 1-16, column 1, lines 46-67, column 2, lines 1-7, column 3, lines 35-67, column 4, lines 1-21, lines 28-32, lines 56-67, column 5, lines 1-28, lines 42-58, column 6, lines 54-67, column 10, lines 31-33*).

Regarding claim 6, Li in view of Ruuska teach all the limitations of claim 1, further, Li teaches wherein monitoring the parameter associated with the communications system further comprises monitoring load associated with at least one component of *[said at least one base station in]* the communications system and (see for example, *Figures 1-9, column 1, lines 7-11, lines 29-67, column 2, lines 1-3, column 3, lines 12-53, column 5, lines 54-67, column 6, lines 1-14, lines 61-67, column 7, lines 1-4, lines 39-67, column 8, lines 1-55*), and further, Ruuska teaches wherein requesting at least one component of said at least one base station in the communications system to enter the sleep mode in response to detecting the preselected aspect of the monitored parameter (see for example, *Figures 1-16, column 1, lines 46-67, column 2, lines 1-7, column 3, lines 35-67, column 4, lines 1-21, lines 28-32, lines 56-67, column 5, lines 1-28, lines 42-58, column 6, lines 54-67, column 10, lines 31-33*). further comprises requesting at least one component of said at least one base station in the communications system to enter the sleep mode in response to the monitored load being less than a preselected setpoint (see for example, *Figures 1-16, column 1, lines 46-67, column 2, lines 1-7, column 3, lines 35-67, column 4, lines*

*1-21, lines 28-32, lines 56-67, column 5, lines 1-28, lines 42-58, column 6, lines 54-67, column 10, lines 31-33).*

Regarding claim 7, Li in view of Ruuska teach all the limitations of claim 1, further, Li teaches wherein monitoring the parameter associated with the communications system further comprises monitoring load and time of day associated with at least one component of *[said at least one base station in]* the communications system and (see for example, *Figures 1-9, column 1, lines 7-11, lines 29-67, column 2, lines 1-3, column 3, lines 12-53, column 5, lines 54-67, column 6, lines 1-14, lines 61-67, column 7, lines 1-4, lines 39-67, column 8, lines 1-55*), and further, Ruuska teaches wherein requesting at least one component of said at least one base station in the communications system to enter the sleep mode in response to detecting the preselected aspect of the monitored parameter (see for example, *Figures 1-16, column 1, lines 46-67, column 2, lines 1-7, column 3, lines 35-67, column 4, lines 1-21, lines 28-32, lines 56-67, column 5, lines 1-28, lines 42-58, column 6, lines 54-67, column 10, lines 31-33*) further comprises requesting at least one component of said at least one base station in the communications system to enter the sleep mode in response to the monitored load being less than a preselected setpoint and the time of day being later than a preselected setpoint (see for example, *Figures 1-16, column 1, lines 46-67, column 2, lines 1-7, column 3, lines 35-67, column 4, lines 1-21, lines 28-32, lines 56-67, column 5, lines 1-28, lines 42-58, column 6,*

*lines 54-67, column 10, lines 31-33).*

Regarding claim 8, Li in view of Ruuska teach all the limitations of claim 1, further, Li teaches wherein requesting at least one component of *[said at least one base station in]* the communications system to enter the sleep mode in response to detecting the preselected aspect of the monitored parameter (*see for example, column 3, lines 12-53, column 5, lines 43-67, column 6, lines 15-67, column 7, lines 1-67, column 8, lines 1-55, entering sleep mode in response to selected parameter that is selected*) further comprises requesting that at least one component of *[said at least one base station in]* the communications system to enter a low-power consumption mode in response to detecting the preselected aspect of the monitored parameter (*see for example, column 2, lines 6-32, column 3, lines 12-53, column 5, lines 43-67, column 6, lines 15-67, column 7, lines 1-67, column 8, lines 1-55*), and further, Ruuska teaches requesting at least one component of said at least one base station to enter sleep mode (*see for example, Figures 1-16, column 1, lines 46-67, column 2, lines 1-7, column 3, lines 35-67, column 4, lines 1-21, lines 28-32, lines 56-67, column 5, lines 1-28, lines 42-58, column 6, lines 54-67*).

Regarding claim 9, Li in view of Ruuska teach all the limitations of claim 1, further, Li teaches wherein requesting at least one component of *[said at least one base station in]* the communications system to enter the sleep mode in

response to detecting the preselected aspect of the monitored parameter (*see for example, column 3, lines 12-53, column 5, lines 43-67, column 6, lines 15-67, column 7, lines 1-67, column 8, lines 1-55, entering sleep mode in response to selected parameter that is selected*) further comprises requesting at least one channel of a plurality of channels associated with the communications system to enter the sleep mode (*see for example, column 1, lines 51-67, column 3, lines 12-53, column 5, lines 43-59, column 6, lines 45-60*), and further, Ruuska teaches requesting at least one component of said at least one base station to enter sleep mode (*see for example, Figures 1-16, column 1, lines 46-67, column 2, lines 1-7, column 3, lines 35-67, column 4, lines 1-21, lines 28-32, lines 56-67, column 5, lines 1-28, lines 42-58, column 6, lines 54-67*).

Regarding claim 10, Li in view of Ruuska teach all the limitations of claim 9, further, Li teaches wherein requesting at least one channel of the plurality of channels associated with the communications system to enter the sleep mode in response to detecting the preselected aspect of the monitored parameter (*see for example, column 3, lines 12-53, column 5, lines 43-67, column 6, lines 15-67, column 7, lines 1-67, column 8, lines 1-55, entering sleep mode in response to selected parameter that is selected*) further comprises requesting a first channel of the plurality of channels associated with the communications system to enter the sleep mode in response to detecting a first preselected aspect of the monitored parameter (*see for example, column 1, lines 51-67, column 3, lines*

12-53, column 5, lines 43-59, column 6, lines 45-60) and requesting a second channel of the plurality of channels associated with the communications system to enter the sleep mode in response to detecting a second preselected aspect of the monitored parameter (see for example, column 1, lines 36-67, column 3, lines 12-53, column 5, lines 43-59, column 6, lines , lines 1-14, lines 45-60, column 7, lines 1-4, lines 39-67, column 8, lines 4-23).

Regarding claim 11, Li in view of Ruuska teach all the limitations of claim 10, further, Li teaches wherein requesting the first channel of the plurality of channels associated with the communications system to enter the sleep mode in response to detecting the first preselected aspect of the monitored parameter (see for example, column 1, lines 51-67, column 3, lines 12-53, column 5, lines 43-67, column 6, lines 15-67, lines 45-60, column 7, lines 1-67, column 8, lines 1-55) further comprises requesting the first channel of the plurality of channels associated with the communications system to enter the sleep mode (see for example, column 1, lines 51-67, column 3, lines 12-53, column 5, lines 43-67, column 6, lines 15-67, lines 45-60, column 7, lines 1-67, column 8, lines 1-55), and further, Ruuska teaches in response to detecting the monitored parameter falling below a first preselected parameter and wherein requesting the second channel of the plurality of channels associated with the communications system to enter the sleep mode in response to detecting the second preselected aspect of the monitored parameter (see for example, Figures 1-16, column 1, lines 46-

67, column 2, lines 1-7, column 3, lines 35-67, column 4, lines 1-21, lines 28-32, lines 56-67, column 5, lines 1-28, lines 42-58, column 6, lines 54-67, column 10, lines 31-33) further comprises requesting the second channel of the plurality of channels associated with the communications system to enter the sleep mode in response to detecting the monitored parameter falling below a second preselected parameter (see for example, Figures 1-16, column 1, lines 46-67, column 2, lines 1-7, column 3, lines 35-67, column 4, lines 1-21, lines 28-32, lines 56-67, column 5, lines 1-28, lines 42-58, column 6, lines 54-67, column 10, lines 31-33).

Regarding claims 12 and 13, Li in view of Ruuska teach all the limitations of claim 1, further, Li teaches wherein requesting at least one component of [said at least one base station in] the communications system to enter the sleep mode in response to detecting the preselected aspect of the monitored parameter (see for example, column 3, lines 12-53, column 5, lines 43-67, column 6, lines 15-67, column 7, lines 1-67, column 8, lines 1-55) further comprises disabling at least one channel of a plurality of channels associated with the communications system (see for example, column 1, lines 51-67, column 3, lines 12-53, column 5, lines 43-59, column 6, lines 45-60), and further, Ruuska teaches requesting at least one component of said at least one base station to enter sleep mode (see for example, Figures 1-16, column 1, lines 46-67, column 2, lines 1-7, column 3, lines 35-67, column 4, lines 1-21, lines 28-32, lines 56-67, column 5, lines 1-28,

*lines 42-58, column 6, lines 54-67).*

Regarding claim 17, Li in view of Ruuska teach all the limitations of claim 16, and further, Li teaches wherein monitoring the parameter associated with the communications system further comprises monitoring time of day and wherein requesting at least one (*see for example, column 1, lines 36-62, column 5, lines 54-67, column 6, lines 1-14, lines 61-67, column 7, lines 1-4, lines 39-67, column 8, lines 4-23*) channel of the plurality of channels [*implemented in a base station*] the communications system to enter the sleep mode in response to detecting the preselected aspect of the monitored parameter (*see for example, Figures 1-9, column 1, lines 7-11, lines 29-67, column 2, lines 1-3, column 3, lines 12-53, column 5, lines 54-67, column 6, lines 1-14, lines 61-67, column 7, lines 1-4, lines 39-67, column 8, lines 1-55*) further comprises requesting at least one at least one channel of the plurality of channels [*implemented in a base station*] the communications system to enter the sleep mode in response to the time of day being later than a first preselected setpoint (*see for example, column 1, lines 36-62, column 5, lines 54-67, column 6, lines 1-14, lines 61-67, column 7, lines 1-4, lines 39-67, column 8, lines 4-23*), and further, Ruuska teaches requesting at least one channel of a base station enter the sleep mode (*see for example, Figures 1-16, column 1, lines 46-67, column 2, lines 1-7, column 3, lines 35-67, column 4, lines 1-21, lines 28-32, lines 56-67, column 5, lines 1-28, lines 42-58, column 6, lines 54-67, column 10, lines 31-33*).



Regarding claim 18, Li in view of Ruuska teach all the limitations of claim 17, further, Li teaches requesting at least one at least one channel of the plurality of channels *[implemented in a base station]* the communications system leave the sleep mode in response to detecting a preselected aspect of the monitored parameter (see for example, Figures 1-9, column 1, lines 7-11, lines 29-67, column 2, lines 1-3, column 3, lines 12-53, column 5, lines 54-67, column 6, lines 1-14, lines 61-67, column 7, lines 1-4, lines 39-67, column 8, lines 1-55), and further, Ruuska teaches requesting at least one component of said at least one base station leaving sleep mode (see for example, Figures 1-16, column 1, lines 46-67, column 2, lines 1-7, column 3, lines 35-67, column 4, lines 1-21, lines 28-32, lines 56-67, column 5, lines 1-28, lines 42-58, column 6, lines 54-67).

Regarding claim 19, Li in view of Ruuska teach all the limitations of claim 18, further, Li teaches wherein requesting at least one channel of the plurality of channels *[implemented in a base station]* the communications system leave the sleep mode in response to detecting the preselected aspect of the monitored parameter (see for example, Figures 1-9, column 1, lines 7-11, lines 29-67, column 2, lines 1-3, column 3, lines 12-53, column 5, lines 54-67, column 6, lines 1-14, lines 61-67, column 7, lines 1-4, lines 39-67, column 8, lines 1-55) further comprises requesting at least one channel of the plurality of channels *[implemented in a base station]* the communications system leave the sleep

mode in response to the time of day being later than a second preselected setpoint (*see for example, column 1, lines 36-62, column 5, lines 54-67, column 6, lines 1-14, lines 61-67, column 7, lines 1-4, lines 39-67, column 8, lines 4-23*), and further, Ruuska teaches requesting at least one component of said at least one base station leaving sleep mode (*see for example, Figures 1-16, column 1, lines 46-67, column 2, lines 1-7, column 3, lines 35-67, column 4, lines 1-21, lines 28-32, lines 56-67, column 5, lines 1-28, lines 42-58, column 6, lines 54-67*).

Regarding claim 20, Li in view of Ruuska teach all the limitations of claim 19, further, Li teaches wherein monitoring the parameter associated with the communications system further comprises monitoring load associated with at least one channel of the plurality of channels associated with the communications system (*see for example, Figures 1-9, column 1, lines 7-11, lines 29-67, column 2, lines 1-3, column 3, lines 12-53, column 5, lines 43-67, column 6, lines 15-67, column 7, lines 1-67, column 8, lines 1-55*) and wherein requesting at least one channel of the plurality of channels [*implemented in a base station*] in the communications system leave the sleep mode in response to detecting the preselected aspect of the monitored parameter further comprises requesting at least one channel of the plurality of channels implemented in a base station in the communications system leave the sleep mode in response to the monitored load being greater than a preselected setpoint (*see for example,*

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*column 1, lines 36-62, column 5, lines 54-67, column 6, lines 1-14, lines 61-67, column 7, lines 1-4, lines 39-67, column 8, lines 4-23), and further, Ruuska teaches requesting at least one component of said at least one base station leaving sleep mode (see for example, Figures 1-16, column 1, lines 46-67, column 2, lines 1-7, column 3, lines 35-67, column 4, lines 1-21, lines 28-32, lines 56-67, column 5, lines 1-28, lines 42-58, column 6, lines 54-67).*

### ***Conclusion***

Applicant's amendment necessitated the **new ground(s)** of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

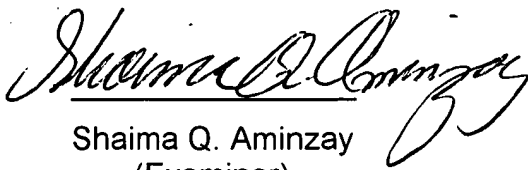
A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

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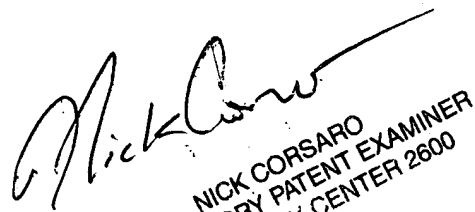
## Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shaima Q. Aminzay whose telephone number is 571-272-7874. The examiner can normally be reached on 7:00 AM -4:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mathew D. Anderson can be reached on 571-272-4177. The fax number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Shaima Q. Aminzay  
(Examiner)

December 29, 2006

  
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